MASURKA, Vladimir; NAVRATIL, Pavel; CERNOCH, Zdenek; ERBEN, Josef; KVASNICKA, Jiri

Surgical treatment of renal hypertension. Sborn. ved. prac. lek. fak. Karlov. Univ. 8 no.2:269-275 '65.

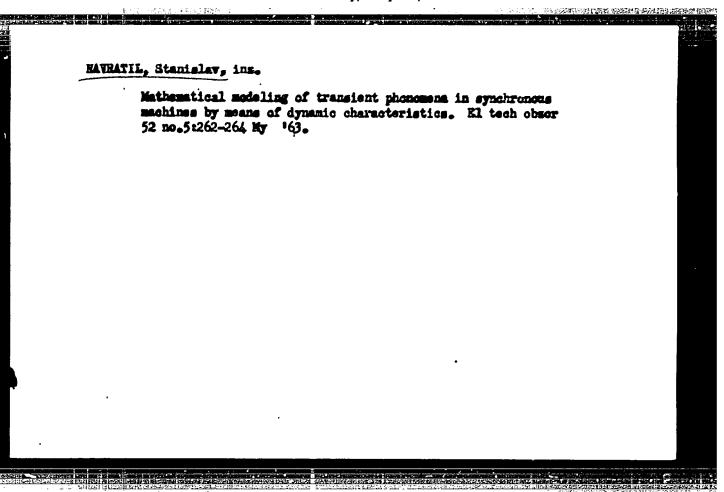
1. II. chirurgicka klinika (prednosta: prof. MUDr. J. Prochazka, DrSc.); Urologicka klinika (prednosta: doc. MUDr. J. Svab, CSc.); Radiologicka klinike (prednosta: prof. MUDr. J. Bastecky, DrSc.) & I. interni klinika (prednosta: prof. MUDr. F. Cernik) Lekarske fakulty Karlovy University v Hradci Kralove.

Navratil, R.

Nevratil, R. Aluminum in building, p. 448.

Vol. i, no. 12, Dec. 1956 POZEMNI STAVBY TECHNOLOGY Czechoslovakia

So. East European Accessions, Vol. 6, No. 5, Hay 1957



NAVRATIL, Stanislav, inz.

Contribution to information on the virus mosaic disease of poplars. Les cas 9 no. 12: 1125-1134 D 163.

 Vyzkumny ustav lesniho hospodarstvi a myslivosti, Zbraslav-Strnady, Vyzkumna stanice Kostelany.

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VEZNIK, Zdenek, MVDr. CSc.; LOJDA, Ladislav, MVDr.; NAVRATIL, Stanislav,

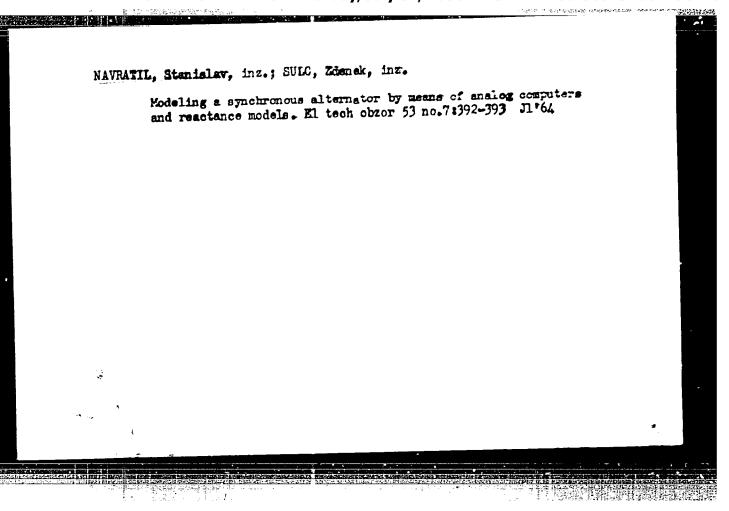
Evaluation of some physicochemical criteria of the cervical mucus in breeding cows. Veter medicina 9 no.5:321-328 0 164.

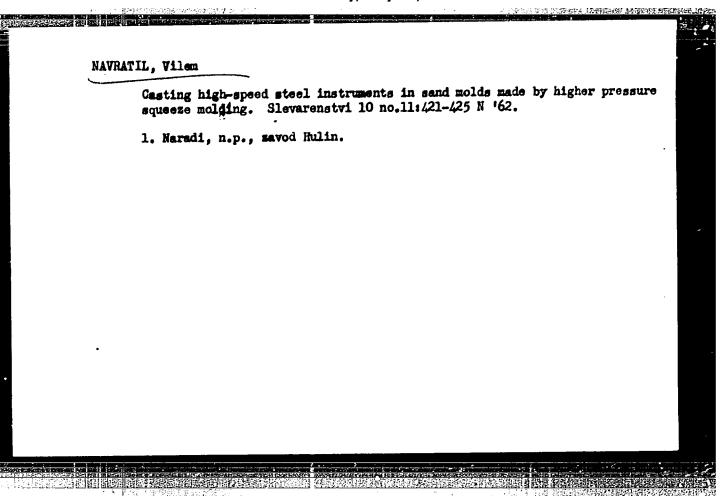
1. Department of Physiology and Pathology of Domestic Animal Breeding of the Research Institute of Veterinary Medicine, Bre --Medlanky. "Gad of the Department: [MVDr. CSc.] Zdenek Veznik. Submitted February 28, 1964.

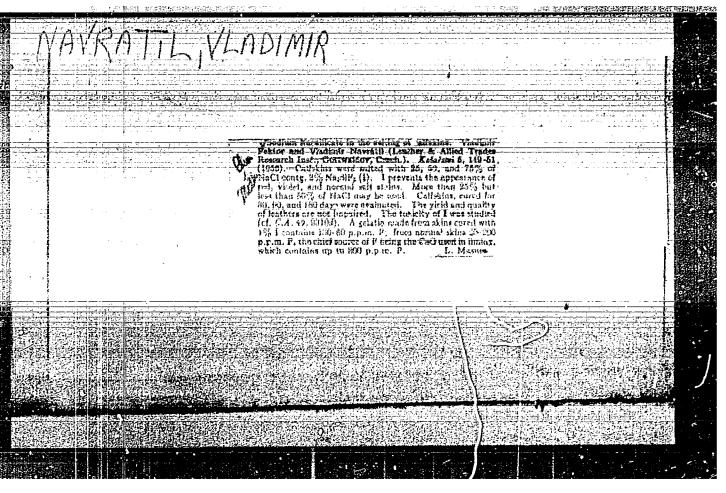
MAVRATIL, Stanislav, inz.; SUVA, Slavomir, inz., kandidat technickych ved

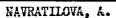
Model of the control circuit of a synchronous generator.
El tech obzor 52 no.10:533-537 0 '63.

1. Statni vyzkumny ustav silnoproude elektrotechniky.





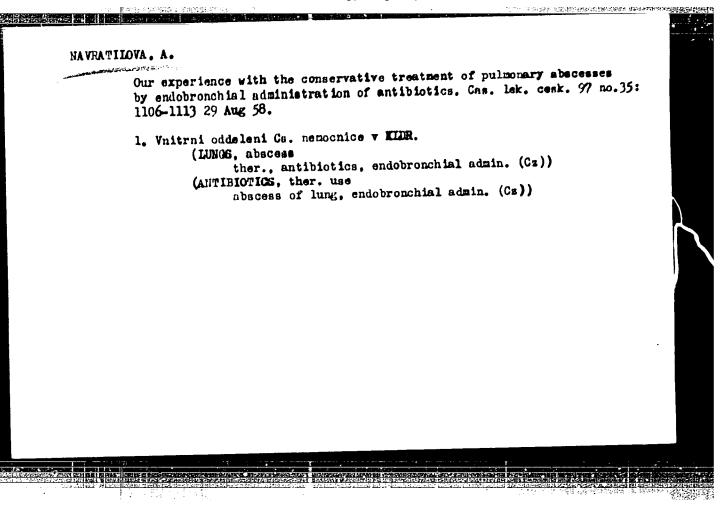




"Rehabilitation of blood circulation after scarlet fever." p. 253. (Casopis Lekaru Ceskych. Vol. 93, no. 9, Feb. 1954. Praha.)

SO: <u>Monthly List of East European Accessions</u>, Vol. 3, no. 6, Library of Cong., June 1954 Uncl.

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7

CZECHOSLOVAKIA

HAVRATILOVA, A., MD; SEDLAK, B., Engineer

1. Second Internal Medicine Clinic of Purkyne University (II. vnitrni kliniky University J.E.P.), Brno; 2. Laboratory of Pathophysiology of the Circulatory System Connected to the Second Internal Medicine Clinic (Laborator pathofysiologie krevniho obehu pri II vnitrni klinice), Brno

Prague, Vnitrmi lekarstvi, No 11, 1963, pp 1065-1070

"Serotonin and Urinary Excretion of 5-Hydroxy-indol-acetic Acid in Some Diseases."

NAVRATILOVA, H.

CZECHOSLOVAKIA

SOUSEK, O., MD; NAVRATILOVA, H., MD

1. Ward of Infectious Diseases of the Hospital (Oddeleni infekcnich zloutenek nemocnice), Motol; 2. Chair of School Hygiene of the Medical Faculty of Hygiene of Charles University (Katedra skolni hygieny lekarske fakulty hygienicke KU), Prague (for all)

Prague, Prakticky lekar, No 10, 1963, pp 369-170

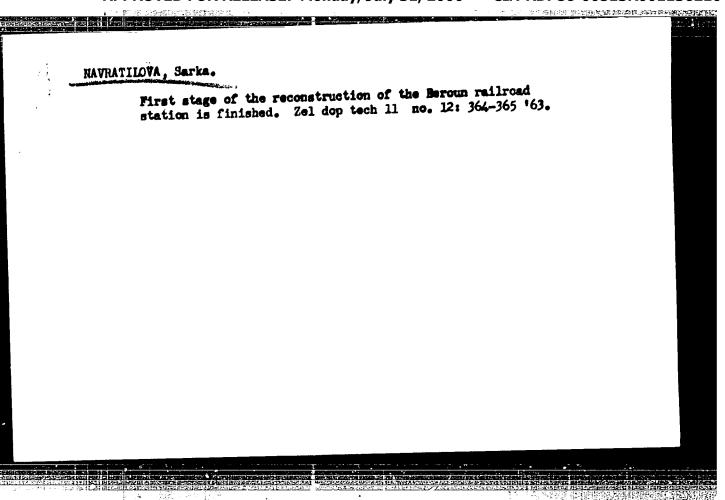
"The Diagnosis of Acute Stage of Hepatitis Infection on Country Calls."

ZAVAZAL, Vladimir; LAVICKA, Josef; stasticke hodnoceni MALY, Vladimir; technicka spoluprace MAVRATILOVA, Jindra

Serological diagnosis of progressive arthritis. Cas. lek. cesk. 101 no.35:1049-1055 31 Ag '62.

1. Ustav pro lekarskou mikrobiologii a epidemiologii lekarske fakulty KU v Plzni, prednosta doc. dr. J. Zahradnicky. Klinika chorob vnitrnich lekarske fakulty KU v Plzni, prednosta prof. dr. K. Bobek.

(ARTHRITIS RHEUMATOID)



KHYUGEL'LAND, ADEL'KHAYD [Rügelland, Adelhoid]; MAVRATSEL', MONIKA

[Nawratsel, Monica]

Cultural work in a trade-union group. Sow. profsoius 17
no.18:41 S'61. (MIRA 14:8)

1. Kill'torg profsoyuznoy gruppy brigady sotsialisticheskogo truda "Anna Frank 1" na narodnom predpriyatii - Berlinskom elektrolampovom zoode (for Navratsel').

(Socialist competition)

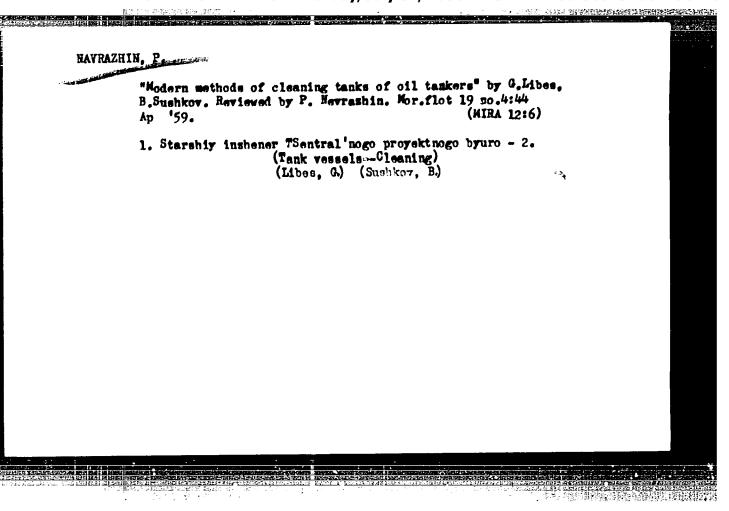
(Berlin-Trade unions)

NAVRAYEV, A. T.

"A Study of Special Showers' of Cosmic Rays with the sid of a Hodoscope,"

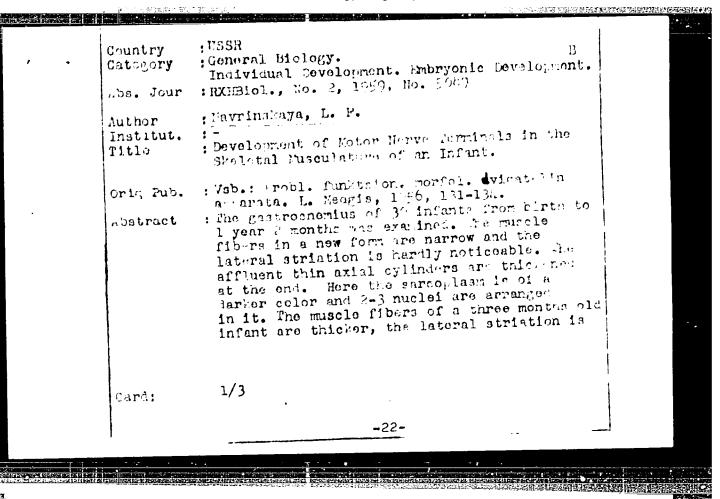
Dok. AN, 68, No. 2, 1949. Mbr. Physics Inst. im. P. N. Lebedev, Dept.

Physico-Math. Scil, Acad. Sci., -c1949-.

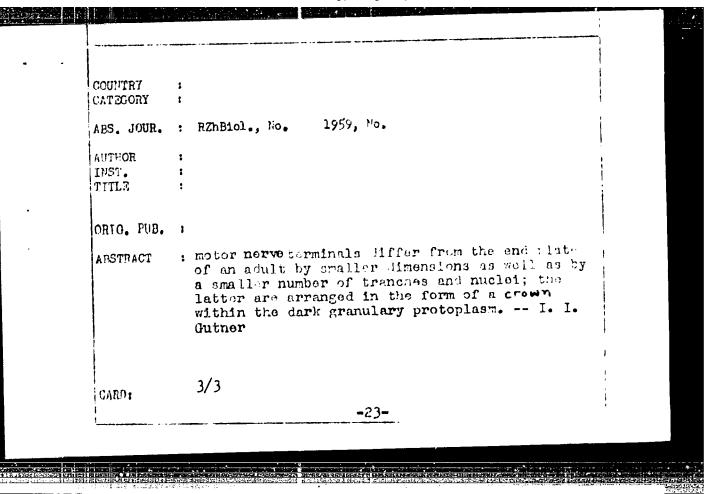


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COUNTRY CATEGORY	USSR
ABS. JOUR.	: RZhBial., No. 1959, No.
AUTHOR INST. TITLE	! :
ORIG. PUB.	:
ABSTRACT	more clearly defined. The terminal dilations of the axial cylinders are oval or orbicular and present a fibrillar structure; sometimes they are sickle-shaped, a fact which certifies the beginning of the terminal branch formation. At 5 months 2-4 branches and granulation of surrounding sarcoplasm may be distinguished in some of the terminals. The muscle fibers in one year old children are dilated and have well defined transverse and longitudinal striction. The



עינטוטייף : USSR Cotogory : CULTIVATED PLANTS, FRUITS, Berries. Aba. Jour. : REF ZHUR-BIOL.,21,1958,NO-96162 Navrodakly, S. landabut. 13th : A New Method of Planting Grapes mig. Tub. : Mashinno-trebt. stantsiya, 1957, Mo.3, 30-31 Abstract : The Ali-Union Anti-Phyllogera Station has suggested a new method of mechanized grape planting: the planting holes are made with a hydraulic bore by means of which a strong of "mater moistens the soil to the depth of the plantin'. Seedlings are drop-ped into the holes (their adaptability is at least 95%). The average productive output of the aggregate system (gasoline drive with tank and 3 hydraulic bores) was 800-900 bushes in one hour.----Ye.T. Zhukovskaya 1/1 Card:

THE THE RESIDENCE OF THE PROPERTY OF THE PROPE

NAVROTSKATA, A.M.; DROBOTOVA, Ye.L.; TAMBOVTSEVA, A.R.; SERGEYEVA, A.F.

Efficient utilization of hops in the brewing industry.

Izv. vys. ucheb. zav.; pishch. tekh. no.4:80-85 '63.

(MIRA 16:11)

1. Zhigulevskiy pivovarennyy kombinat, issledovatel'skaya laboratoriya.

NAVROTSKAYA, A. M.

Efficient utilization of hops in brewing. Izv.vys.ucheb.zav.; pishch.tekh.no. 2:65-69 *64. (MIRA 17:5)

1. Zhigulevskiy pivovarennyy kombinat, issledovatel'skaya laboratoriya.

MCDEL', A.A., MATROTSKAYA, B.S.

Electrocardiographic changes in chronic hydrogen sulfide poisoning, (MIRA 11:9)

1. Elyevakiy institut gigiyeny truda i professional'nykh sabolevaniy. (RIDROGES SULFIDE—TOXICOLOGY)

(RIDROGES SULFIDE—TOXICOLOGY)

LUCHEROK, O.S., dotsent; MATROTSKATA, F.R., vrach

Successful Chaoul therapy in rhinophyma. Zdrav. Belor. 5 no.11:57
N 159.

1. Is kafedry rentgenologii i radiologii (saveduyushchiy O.S. Luchenok)
Minskogo meditsinskogo inatituta i Respublikanskogo onkologicheskogo
dispansera (glavnyy vrach T.T. Foddubaya).

(NOSE--DISRASES)

(X RAYS--THERAPFUTIC USE)

KULIK, Valeriy Timofeyevich; IVAKHNENKO, A.G., prof., reteanzent;
IVANOV, V.V., kand. fiz.-matem. nauk, red.; NAVROTSKAYA,
L.B., inzh., red.; STARODUB, T.A., tekhn. red.; MAIUSEVICH,
S.M., tekhn. red.

[Principles of algorithmation and construction of control
machines] Printsipy algorithmizated in postroemia upravliaiushchikh mashin. Kiev, Gostekhizdat USSR, 1963. 309 p.

(MIRA 17:2)

1. Chlen-korrespondent AN Ukr.SSR (for Ivakhnenko)

CHIKALO, I.I.; MAVROTSKAYA, L.Te.

Repidity of protein renewel in eye tissue. Oft.shur. 12 no.2:71-75
'57.

1. Is Ukrainskogo nauchno-issledovatel'skogo eksperimental'nogo institute glesnyth bolesney i tknnevoy terapii imeni eksd. V.P.
Filatova (dir. - prof. M.A.Fuchkovskaye)

(NYR) (FROTHIN METABOLISM)

CHIKALO, I.I., starshiy nauchnyy sotrudnik; HAVROTSKAYA, L.Ye., uladshiy nauchnyy sotrudnik

Influence of the implantation of heterogenous skin on the condition of proteins in certain tissues of the rabbit. Oft.shur.

13 no.8:480-482 '58. (MIRA 12:2)

1. Is Ukrainskogo nauchno-issledovatel'skogo eksperimental'nogo instituta glasnykh bolesnoy i tkanevoy terapii in. akad. V.P. Filatova (direktoz - prof. N.A. Puchkovskaya).

(TISSUE EXTRACTS

(PROTEIN METABOLISM)

GHIKALO, I.I., kand.biologicheskikh nauk; NAVROTSKAYA, L.Ye., nauchnyy sotrudnik

Possibility of the proteolytic action of the aqueous humor on the cornea in penetrating keratoplasty and penetrating wounds. Oft. shur. 15 no.5:259-264 '60. (MIRA 13:9)

1. Ukrainskogo nauchno-issledovatel'skogo eksperimental'nogo instituta glasnykh bolesney i ttanavoy terapii im.akademika V.P. Filatova (director - prof. N.A. Puchkovskayn). (CORNEA—TRANSPLANTATION)

(PROTEIMASES—PHYSIOLOGICAL EFFECT)

M

NAVROTSKAYA Country : USSR Category: Cultivated Plants. Grains.

Abs Jour: RZhB101., No 22, 1958, No 100251

: Navrotskaya, N. : Zakarpatskaya Oblast' State .igricultural Experimental Station. Inst

: Corn Breeding and Seed Growing.

Orig Pub: 6b. nauchn. tr. Zakarpatek. obl. gos. s.-kh. opytn. st., 1950-1955 (1957), 1, 47-57.

ណ្ឌាំស្នងស្គាល់ និក្ខាសារ

.. bstract: Zakarpatskaya Experiment Station has been engaged in corn breeding since 1947; it has collected and studied a large collection of local specimens, which is being utilized for the separation of strains for the purpose of Greating valuable double cross hybrids.

card : 1/2

Title

M-32

· 1208] * 100 强加强控制的联系处理的影响。

HAVROTSKAYA, R.F. Ismediate and late results of chaoul therapy in skin cancer. Zdrav. Belor. 5 no. 3:43-44 Mr '59. (MIRA 12:7) 1. Respublikanskiy onkologicheskiy dispanser (glavnyy vrach T. T. Poddubnaya). (SKIH--CANCER) (X RAES--PHYSIOLOGICAL EFFECT)

LUCHENOK, O.S., dotsent; NAVROTSKAYA, R.F.

Successful Chaul, therapy in rhinophyma. Vest. rent. i rad. 35
no. 4872-73 Jl-4g '60. (MIRA 14:2)

1. Is kafedry rentgenologii i radiologii (zav. - dotsent O.S.
Luchenok) Minekogo sediteinskogo instituta (direktor I.M. Stell-mashomok) i Raspublikanskogo onkologicheskogo dispansera
(glavnyy vrach T.T. Poddubnaya).

(ROSACEA) (X RAIS—THERAPEUTIC USE)

11621.65 EWT(m)/UPR/E	WF(t)/EXP(b) P5-4	IJP(c) JE S/0006/6	/JG/GS 4/000/000/0038/0043 20	-)
JTHOR: Zabolotskiy, T. V.;			2+1	
ITLE: Reactions of nitrile	otriacetic acid with in	ndium, gallium	and aluminum ions	
DURCE: AN SSSR. Sibirskoye heskiy analiz tsvetnykh i n are metals). Novosibirsk, F	madkikh matallov (Chem	ical analysis	OI HOUTELLOGS and	
OPIC TAGS: indium, gallium	a, aluminum; nitrilotr	lacetic acid,	titrimetry, chemical	
in the second of				ł
BSTRACT. The interaction of luminum were studied by medical of isomolar series and investigated metal. The election of a frequency of 800 cp found that all three metals we or three hydrogen atoms arrivate composition were don of indium with nitrilo	asuring the specific of of series with a con- ectrical conductivity a. Farphones were use form 1:1 complexes which in nitrilotriacetic a	onductance and stant concent: was measured; d as the null ich are substacid molecules who that directions.	ration of lone of the vith a bridge circuit detector. It was itution products of . Complexes of more to chelometric titra-	E
luminum were studied by medican of isomolar series and investigated metal. The election a frequency of 800 cpround that all three metals we or three hydrogen atoms	asuring the specific of of series with a con- ectrical conductivity a. Farphones were use form 1:1 complexes which in nitrilotriacetic a	onductance and stant concent: was measured; d as the null ich are substacid molecules who that directions.	ration of lone of the vith a bridge circuit detector. It was itution products of . Complexes of more to chelometric titra-	E

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COUNTRY

USSR

CATECOPY

CULTIVITED HANTS. General Problems.

ABS. JOUR. REF ZHUR - BIOLOGIYA, NO. 4, 1959, No. 15546

AUTHOR

· Navrotskaya, V.S.

HYSTE

: Oddasa Hydrometeorological Inst.
. Application of S.A. Verigo's Formula in the

Climetological Study of Drought.

ORIG. RUE.: Tr. Cdessk. gidrometeorol. in-ta, 1957, vyp.

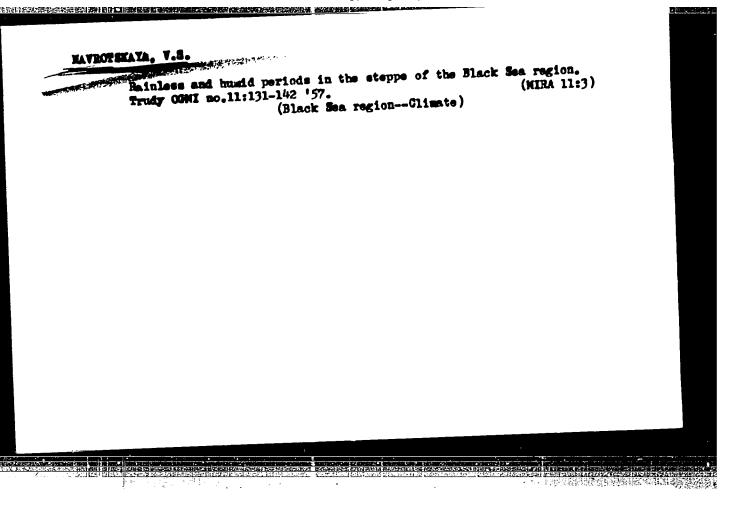
11, 121-129

ABSTRACT : A formula is given for determining the water losses from the tilled layer during the rainless period for the places: sprouts - formstion of leaves and formation of ears and Tluwers. Knowing the initial reserves of productive moisture, the permissible duration of drought can be calculated by the indicated

formula.

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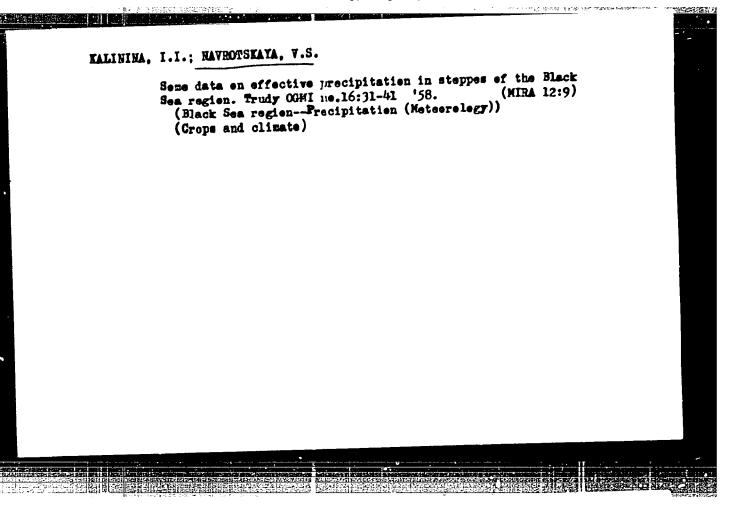
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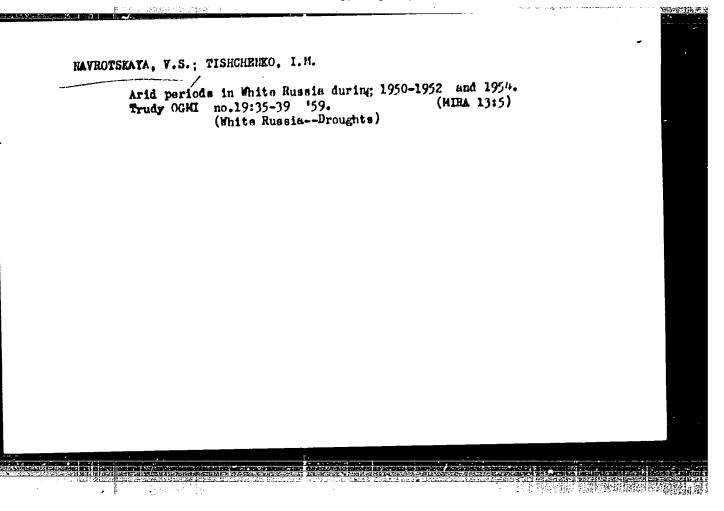
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PRASE I BOOK EXPLOITATION	agromateorologii i agro	mearisty konferents!! (Materis! of the Conference on Agriculture!) Mesospology and Climicology of the Udrainian 388) Leningrad, @idenmateolidat, 1995. 247 p. Error silp inserted. 700 copies pristed.	megaring Agencies: UNSE, Glavnoye upravienty gidyometeorologich- esiny alushby, Urranian SEE, Ministerstvo esivanopo khonyaytvo Westhaniy neuchho-isaladovatta! sily gidyometeorologichesity in editst, end Urrainakaya akadesiy sel'skokozyaystvenykh nauk.	m. Ma.: O.F. Frikhet'Es; Ma.: W.D. Pisearweknys; Tech. Ma.: M.I. Mraynina.	FORE: This book is intended for agriculturists, agreest	OUTHAME: This collection of articles deals with problems in agri- entural meteorology in the Unrains. Among the topics discussed	ewer wintering, planting time for winter erops, corn cultivation, pataso degeneration, moisture supply, and advance weather factore. Maferendes accompany individual articles.	iserial of the Conference (Gont.)	Age Bests Soil Water Conditions in Best Grep Motation	Temperativ, N.V. [Odesas Agromet, Station] Noisture Reserves : Sinter Whest in the Seathern Odesas Region and the Importance the Meisture Providing Irrigation	Mechinskir, I. Te. (Unreinian Scientific Research Rydrome, Institute) Elimetic Study of Bulboveys (Dry Winds) in the Unreine	Bragis, In. S. [Unrainism Seisstific Besearch Eydroset, Institute]	mernetakara, E.A. [Odessa Mydromer, Institute] Mainless and Wet Prints in the Friebernomorskaya (Black Ses) Steppe	malin. In. A. (Unrainian Scientific Researth Institute for Dyestry and Agroforestration) Effective Zones of Smiler Balts	Ballingin, G.L. [Shar' kov State University] Misroclimate of Irri- mated Landa	Medingich, A.Y. (Urrainian Scientific Research Eydromet, Institute) Lerecinatio Study of Urrainian Poothille	Opireberg, I.A. (Main Geophysical Observatory) Compiling Detailed Merrelimatic Raps	Paskary, I.E. (State Evirological Institute) Devices and Methods for Mesering Eraporation from Cultivated Fields	PRESSORTA [17] [State Evidological Instituta] Determining Evapora- ing from Drained and Mon-Drained Seamps by the Best-Belance Settled	Speciarekays, H.H. Autumn and Spring Prosts in the W	enciniana. A. d. [Professor, Urainian Scientific Research Premet. Institute] Climatic Conditions of Corn Cultivation in Brains	medecky, A.I. (All-Union Institute of Grop Seismos) The Effect Elimits Conditions on the Depostation of Potatons and the App sees at Phytophibors (Parasitis Pungi)	A emagnetion of the Scientific Methodology Council of the Undama Pepartment of Agriculture	
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ZUMBADZE, D.H.; HAVROTSKAYA, V.S.

Comparability of the results of studies on dry winds obtained on the basis of different criteria. Trudy OGHI no.19:31-34 (MIRA 13:5)

159. (Winds)



GNEZDILOVA, Ye.I.; DMTTRENKO, I.I.; LARIONOVA, V.S.; MAVROTSKAYA, V.S.

Characteristics of the temperature regime during dry periods in the steppe of the Elack Sea region. Trudy COMT no.21:21-26 '60. (MIRA 14:10)

(Flack Sea region-Droughts)

ACC NRI ARIO22460

SOURCE CODE: UR/0169/66/000/003/B043/B043

AUTHOR: Zaslavs/aya, F. V.; Navrotskaya, V. S.; Tolmacheva, I. A.; Medvedev, G.A.

TITLE: Aerological patterns of foehns as observed in the Rion Valley OGHI expedition

during September-October of 1962

SOURCE: Ref. zh. Geofiz, Abs. 3B278

REF SOURCE: Meteorol., klimatol i gidrol. Mezhved nauchn., vyp. 1, 1965, 17-22

TOPIC TAGS: weather forecasting, weather station, meteorologic observation

TRANSLATION: An account is given of the results of investigation of the wind and temperature patterns in the atmosphere, which was conducted by members of this expedition. The purpose of the expedition was to investigate the foehn winds on the Surah Pass which rises to 1242 m above sea leval near the Mta-Sabueti station. The investigation which rises to 1242 m above sea leval near the Mta-Sabueti station. The investigation which rises to 1242 m above sea leval near the Mta-Sabueti station. The investigation which rises and other points in the TransCaucasus. At Kutaisi the easterly wind, having a velocity of 5 m/sec, lowers the relative humidity to 50% in some 80% of the cases. Such wind could be classed as foehn. However, the foehn characteristics are seldom observed and its velocity is usually less than 5 m/sec. The relationship between the temperature and the air humidity on one hand and wind velocity on the other was found to be complex. As the wind velocity increases, the relative humidity decreases and

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rections of ind might dev a result, t eakened. On	e of the air rathe foehn and elop in the Riche velocity of the days of thop. The wind taisi Pass, the simple of the days of th	the mountain to Valley in fiving from the foehn wind from the control of the cont	foehn effect is a n wind may coinci a direction oppo the east is incre d over the Surah ast may be felt a m the east were a	site to that of t ased and that of range, an inversi a far away as 2 k	he foehn. the foehn, on or an iso- m. Occasion-
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NAVROTSKAYA, V.V.

Comparative evaluation of synthetic materials used in plastic surgery on the wall of the esophagus. Khirurgiia 39 no.5:82-87 My 163. (MIRA 17:1)

1. Iz kafedry operativnoy khirurgii i topgraficheskoy anatomii (zav. - chlen-korrespondent AMN SSSR prof. V.V. Kovanov) I Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova.

edoszaszános finit

ROZHDESTVENSKIY, L.M., student VI kursa, NAVROTSKAYA, V.V., studentka III kursa
LEMEDEVA, E.D., studentka III kursa.

Experimental surgery in providing a plastic tube for the trachea.
Vest.oto.-rin. 20 no.3:105 My-Je '58 (NIRA 11:6)

1. Is kafedry operativnoy khirurgii i topograficheskoy anatomii
(sav. - prof. V.V. Kovanov) I Moskovskogo meditsinskogo instituta
imeni I.M. Sechenova.
(TMAGHEA--SURJERY)

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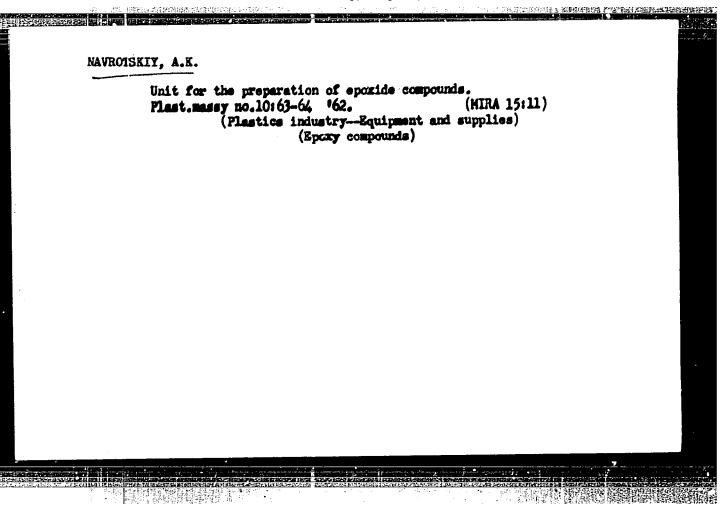
THE REPORT OF THE PROPERTY OF

NAVROTSKAYA, V.V. Formation of an experimental model of esophageal diverticulum and methods of its correction. Trudy 1-go MM 42:263-272 '65. (MIRA 19:2) 1. Kafedra operativnny khirurgii i topograficheskoy anatomii lego Moskovskogo ordena lenina meditsinskogo instituta imeni Sechenova.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0011362100

SAME AND AGEORPHICAL PARENTED PROPERTY AND A

ACC NR: 1126008284 SOURCE CODE: UR/0109/65/011/003/0471/0476 AUTHOR: Lashenkov, V. H., Illin, V. S., Havrotskaya, Yu. H. ORG: none TITLE: Calculating natural frequencies of axially-symmetrical resonators and critical savelengths of regular waveguides SOURCE: Radiotekhnika i elektronika, v. 11, no. 3, 1966, 471-476 TOPIC TAGS, resonator, waveguide ABSTRACT: The field structure in some periodic waveguides is such that description of the delay system, with $\varphi=0$ and $\varphi=\pi$, can be reduced to consideration of the resonators mass configuration is determined by the geometry of one section of the delay system. Hence, the delay-system dispersion equation can be used for calculating the natural frequencies of such resonators. In an extreme case, when the radii of the delay system approximate infinity, the axially-symmetrical resonator "degenerates" into a shaped regular waveguide. Authors formulas developed earlier (Rad. i elektronika, 1965, v. 10, no. 2, 269) for axially-symmetrical delay systems are adopted for single-ridge waveguides; this method is illustrated by a calculation of fundamental TR-mode in such a waveguide. Orig. art. has: 3 figures, 35 formulas, and SUB CODE: 09 / SUBM DATE: 18Hov64 / ORIG REF: 004 / OTH REF:000 UDC: 621.572.834.001.24



NAVROTSKIY, B.S., kand.tekhn.nauk

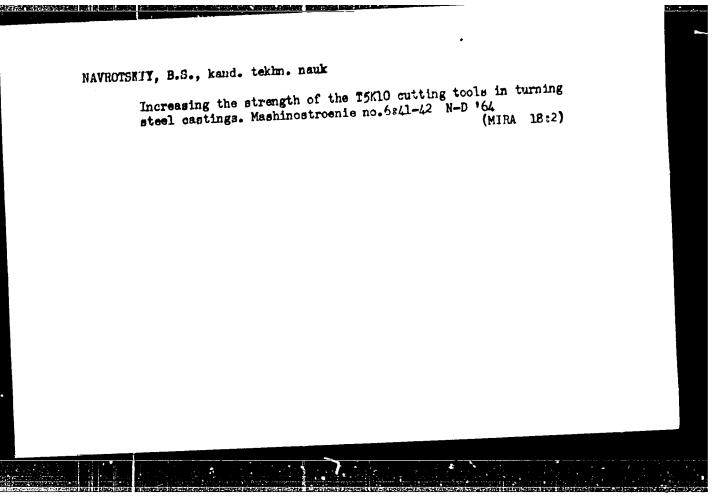
Effect of basic technological factors on cutting forces in machining steel castings on lathes with various feeds. Mashinostroenie no.2: 29-31 Mr-Ap *62. (MIRA 15:4)

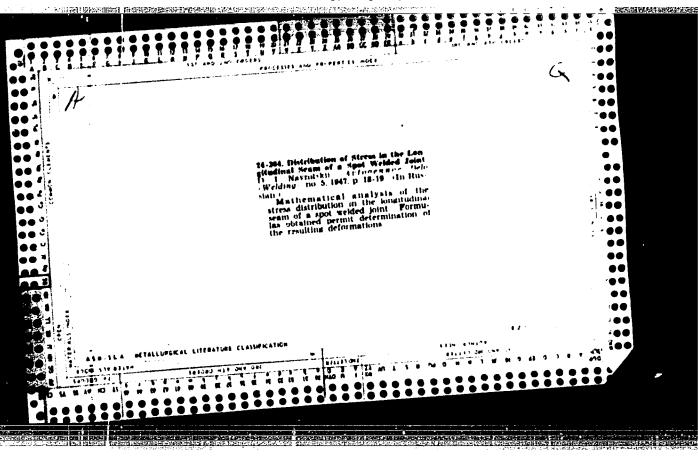
1. Kiyevskiy politekhnicheskiy institut. (Turning)

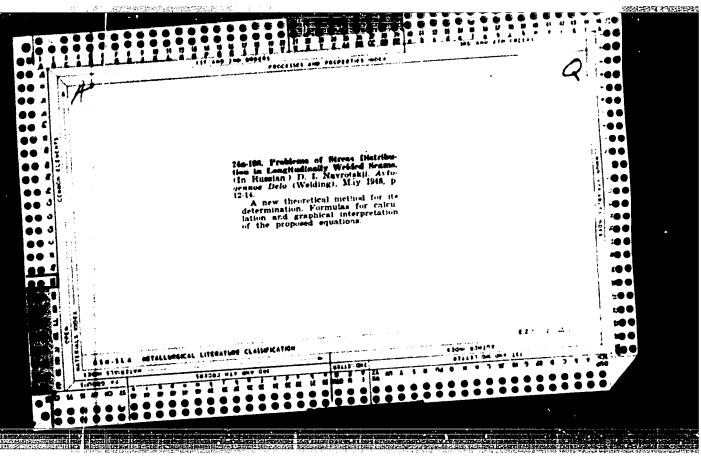
NAVROTSKIY, B.S., kand. tekhn. nauk

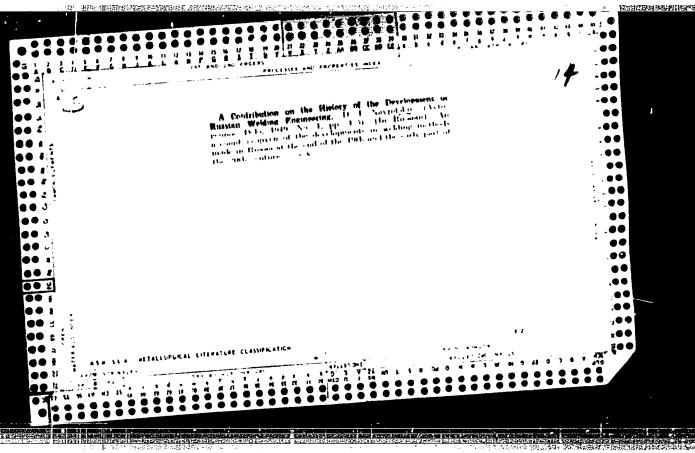
Strength of cutting tools made of the TLANB alloy during the turning of 45L steel castings. Mashinostroenie no.317-10 (MIRA 16:7)

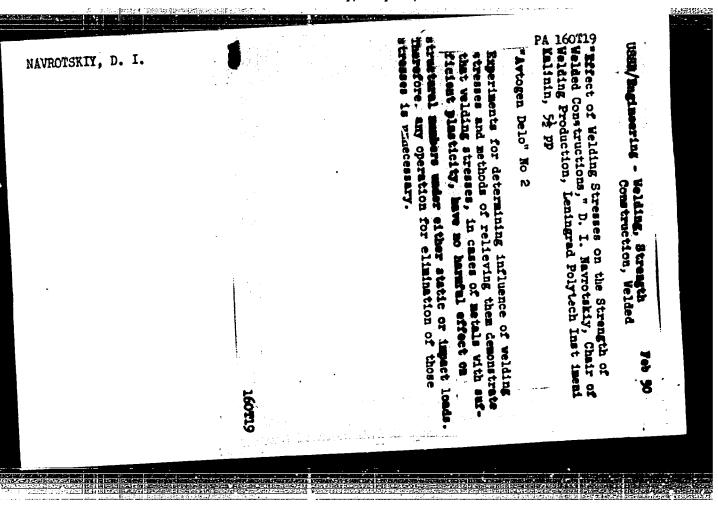
1. Kiyevskiy politekhnicheskiy institut. (Metal cutting ols)











- D. I. NAVROTSKIY
- 2. USSR (600)
- 4. Bridges, Iron and Steel
- 7. Ancient Tiflis bridge across the Vera. I. Z. Gzelishvili. Soob. AN Gruz. 3538 ll no. 2. 1950.

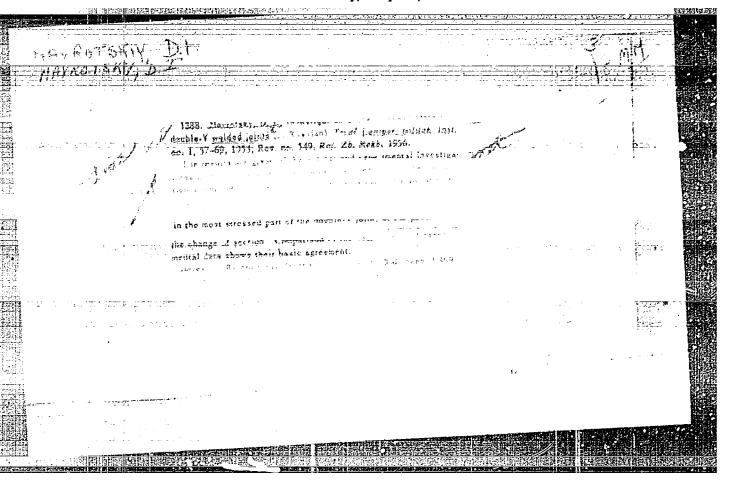
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

OUSEL'EMBRIKOV, N.E., professor; GETMAN, N.G., redaktor; MAVECTEKIY, D.I., redaktor; FIRSOV, N.Ye., redaktor.

[Electric and gas welding in shipbuilding and ship repair] Elektricheekala i gasowala evarka v sudostroenii i sudoremonte. 2 ind., dop. i perer. Leningrad, Ind-vo Ministerstva morekogo i rechnogo flota (MEA 7:7) SEER, 1953. 397 P.

(Electric welding) (Oxyacetylene welding and cutting)

(Eniphuilding)



NAVROTSKII, D. I.

6898 Navrotskiy, D. I., Savel'yev, V. N. i Luchkin, P. N. Issledovaniye
raspredeleniya mapryazheniy v uzle s dvustenchatoy fasonkoy. M., Tranczheldorizdat,
1954. 12s. s chert. 22sm. (MPS SSSR. Nauch. - issled. in-t mostov pri
LIIIAT. Soobshcheniye No 16.) 500 ekz. Bcspl. --(55-1735)
624.2.014.957:621.791.056

S0: Knizhnaya Letopia' No. 6, 195.

HAVROTSKIY, D.I., kandidat tekhnicheskikh nauk Investigating the strength of main truss connections in all-weld span

structures. Sver. proisv. no.7:4-7 Jl 155.

1. Mauchno-issledovatel'skiy institut mostov pri Leningradskom Institute inshenerov shelesnodoroshnikov. (Trusses-Welding)

CIA-RDP86-00513R0011362100 **APPROVED FOR RELEASE: Monday, July 31, 2000**

HAVEOTSKIT, D.I., kandidat tekhnicheskikh nauk.

Impact tests of weldings. Svar.proisv. no.6:14-17 Je '56.
(MERA 9:9)

1.Leningradskiy politekhnicheskiy institut imeni M.I.

Kalinina.
(Welding--Testing)

AID P - 5271

Subject.

: USSR/Engineering

Card 1/2

Pub. 107-a - 7/18

Authors

Navrotskiy, D. I., Kand. of Tech. Sci. and V. YU. Shishkin, kand. of Tech. Sci. (Leningrad Polytechnic Institute

im. Kalinin).

Title

Surface metal-structure in butt welding

Periodical

: Svar. proizv., 9, 22-23, S 1956

Abstract

: The authors describe the automatic butt welding procedure from the view point of the constantly vibrating load or vibrating loading faced by the welded joints. The importance of the surface metal structure on the base metal, and the sharp transitions from surface of the seam to base metal while butt welding is done are particularly underlined. Two formulae, 1 drawing, 1 table and 1 GOST

standard.

SOV/137-58-7-15007

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 156 (USSR)

AUTHOR: Okerblom, N.O., Navrotski, UI

TITLE: New Approaches to the Problems of Strength and Ease of

Manufacture of Welded Structures (Novoye v voprosakh proch-

nosti i tekhnologichnosti svarnykh konstruktsiy)

PERIODICAL: V sb.: Svarochnoye proiz-vo. Leningrad, Lenizdat, 1957,

pp 125-142

ABSTRACT: An' examination of various aspects of employment of com-

bined welded structures (WS), the influence of the structural shaping on the strength (S) of the WS, and the effect of stresses induced by welding on the performance of the WS. It is noted that the replacement of cast elements intended for turbines of the Kuybyshev hydroelectric station at the Leningrad metal plant by combined welded components resulted in a reduction in the weight of parts from 527 to 338 t, a reduction of standard man-hours from 21,542 to 14,664, and a reduction in cost from 2,479,000 to 1,563,000 rubles. The following data are provided: a) characteristics of mechanical S of joints composed of cross

a) characteristics of mechanical S of joints composed of creambers; b) the reduction in the value of σ_b under the

Card 1/2

SOV/137-58-7-15007

New Approaches to the Problems of Strength and Ease of Manufacture (cont.)

combined influence of abrupt stress concentrations and extremely low tempperatures; c) the critical brittleness temperature of specimens (parent
metal and butt, T-, and bead joints) made of steel St 3 and NL-2; d) S and
plasticity under impact and static loading; e) vibration S of butt joints of
steel M16S, etc. It is pointed out that, according to static and dynamic data,
welded joints are superior to riveted connections. Endurance characteristics for various types of steel and different welded joints are given as a
function of the stress-concentration factors. It is recommended that the
standards for vibrational S be established on the basis of tests performed on
specimens and structures after these have been subjected to loads rather
than on the basis of tests carried out on specimens in their original state.

A.K.

1. Structures--Welding 2. Structures--Mechanical properties 3. Welded joints

Card 2/2

NAVROTSKIY, D.I

SUBJECT:

USSR/Welding

135-5-2/14

AUTHOR:

Navrotskiy, D.I., Candidate of Technical Sciences.

TITLE:

Strength of Joint-Widenings under Vibrational Load. (Prochnost' uzlovykh ushireniy pri vibratsionnoy nagruzke).

PERIODICAL:

"Svarochnoye Proizvodatvo", 1957, # 5. pp 6-9 (USSR)

ABSTRACT:

The Scientific Research Institute for Bridge Construction, in cooperation with the Leningrad Polytechnical Institute investigated the strength of joint widenings of different designs in welded bridge trusses. It was established that the transition area from a bar element to a gusset is the most dangerous spot of the joint and consequently the configuration of this transition area will determine the atrength and durability of the joint as a whole. The shape the joint widenings was defined according to the span designs as suggested by the Scientific Research Institute for Bridge Construction and the article contains detailed descriptions of the test samples.

Card 1/3

In order to prove that the quality of welded joint widenings is not inferior to the riveted ones, samples of riveted joint widenings were also tested. The experiments showed that joint

135-5-2/14

TITLE:

Strength of Joint-Widenings under Vibrational Load. (Prochnost' uslovykh ushireniy pri vibratsionnoy nagruzke).

transitions of riveted connections under vibrational loads are considerably inferior with respect to strength when compared to those made by welding. The relative strength of riveted joints amounts to only 44-46 %.

The article concludes with recommendations concerning the designing of welded joint transitions of bridge trusses as follows:

- 1. Joint widenings must have an even configuration. The curvature radii of the outer contours of gussets within the contact area of stretched elements must not be less than 100 mm.
- 2. Butt welds connecting separate profile parts of bar elements fastened to gussets must be carried away from the start of the curvature of the gussets (or other stress concentrators) at a distance at which an even stress distribution is achieved.

For two-wall gussets, this distance is not less than 50 mm; for single-wall gussets it is 1 = B, whereby B is the width of the flange of the bar element.

3. In order to increase the reliability and strength of joints, and to simplify their design, it is desireable to select a profile of stretched bar elements with narrow flanges for those cases in which single-wall gussets are to be used. When bar

Card 2/3

135-5-2/14

TITLE:

Strength of Joint-Widenings under Vibrational Load. (Prochnost' uslovykh ushireniy pri vibratsionnoy nagruzke).

elements have wide flanges, the irregularity of stress distribution at joint transitions increases and joint designs become more complicated.

4. In order to increase the strength of welded joints,
4. In order to increase the strength of welded joints,
besides providing the necessary uniformity at those areas where
the shape changes, it is suitable to increase the profile area
the shape changes, it is suitable to increase the profile area
locally, which may be achieved by increasing the thickness of
the gusset.

ASSOCIATION: "HUN MOCTOB" (Research Institute for Bridge Construction).

PRESENTED BY:

SUBMITTED:

AVAILABLE: At the Library of Congress.

Card 3/3

WAYROTSKIY, D.I., kand.tekhn.nauk

Comparing the strength of welded and riveted joints under the effect of dynamic loading. Sudostroenie 23 no.6:7-11 & '57.

(Welding--Testing) (Rivets and riveting--Testing) (Strains and stresses)

SOV/137-58-11-22610

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 11, p 113 (USSR)

AUTHORS: Savel'yev, V. N., Navrotskiy, D. I., Makurin, V. A., Shishkin, V. Yu.

TITLE: An Investigation of the Vibrational Strength of Welded Connections in

Low-alloyed Steel of the NL-2 Type (Issledovaniye vibratsionnoy prochnosti svarnykh soyedineniy iz nizkolegirovannoy stali marki NL-2)

PERIODICAL: Soobshch. N. -i. in-t mostov pri LIIZhT, 1957, Nr 55, 28 pp, ill.

ABSTRACT: In order to obtain more accurate parameters for technological processes of welding of steel NL-2, and to establish the conditions necessary to obtain welded connections (WC) which, under operational conditions involving alternating loading, are equivalent in strength to the parent metal, the effect of the rate of cooling (RC) on the R_C and a_k values of the weld and of the adjoining zone was investigated together with the effect of various welding-rod materials on the mechanical properties of the WC. Preliminary to testing, metal plates (600x400-x20-30 mm), which had been welded with UONI-13/45 electrodes in an automatic welding machine as well as manually (seven combinations

of flux and welding rods were employed), were subjected to an X-ray Card 1/2 examination. It was established that butt-welded connections made of

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SOV/137-58-11-22610

An Investigation of the Vibrational Strength of Welded Connections (cont.)

NL-2 steel can be as strong as the parent metal both under static and vibrational loads. By appropriate selection of welding procedures the shape of the weld may be controlled so as to produce a connection which is equivalent in strength to the parent metal without requiring any additional mechanical treatment [machining]. If the above condition is not observed, or if the welding conditions are not carefully observed, local mechanical treatment [machining] of the connection becomes mandatory. The NL-2 steel lends itself to welding at conditions ranging from $q_n/V=7000$ cal/cm to $q_n/V=13500$ cal/cm, i.e., conditions which produce cooling rates in the weld zone ranging from 5.6 to 18.3°C/sec. WC equivalent in strength to the parent metal may be obtained by employing the following welding materials: a) AN-10 flux in conjunction with welding rods of the Sv-08A, Sv-08GA, and Sv-12M types; b) fluxes OSTs-45 and AN-348 in conjunction with welding rods of the Sv-08GA type. Since the NLr2 steel is sensitive to stress concentration, it is essential that in the course of future investigations the effect of residual stresses on the strength of the WC be verified, the technological and strength characteristics of WC of 30-mm thick sheets be determined more precisely, and that additional TUPIM-sv-55 technical welding specifications be developed for the design and fabrication of welded-bridge structures.

V. S.

Card 2/2

SOV/137-58-8-17051

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 121 (USSR)

AUTHOR:

Navrotskiy, D.I.

TITLE:

An Investigation of Tensile Strength of Welded Connections Under Independent Action of Residual Stresses and Local Plastic Deformations (Issledovaniye prochnosti svarnykh soyedineniv pri razdel'nom deystvii ostatochnykh napryazheniy i mestnykh plasticheskikh deformatsiy)

Tr. Leningr. politekhn. in-ta, 1957, Nr 189 pp 43-50 PERIODICAL:

ABSTRACT:

Variations in $\sigma_{\mathbf{w}}$ occurring during testing of cruciform structural specimens with various residual stresses (RS) were investigated. A cruciform specimen of St 3 steel ("b 42.6 kg/mm²) was prepared by welding together (with the aid of UONI-13/45 electrodes) two side plates (14x150x350 mm) with slots into which a central plate (9x150x300 mm) was inserted and welded against the side by means of cofner welds with a K=8 mm; a small gap was left between the side plates. Experimental and calculated data were employed to construct a diagram showing the distribution of stresses in the critical cross

Card 1/2

section of the specimen under the action of loads

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SOV/137-58-8-17051

An Investigation of Tensile Strength of Welded Connections (cont.)

^ocomputed 40.2 kg/mm² in the central section over a length of approximately 25 mm, gexper 4 kg/mm² nearer to the edges of the plate, and mean 11.4 kg/mm² throughout the entire cross section. After welding, the specimen was annealed for a period of two hours at a temperature of 650°C in order to relieve the RS due to welding. RS were also introduced by means of cold forging of the edges of the central plate (b=20 mm) with a pneumatic hammer, as well as by heating them locally. In the first instance, tensile RS were calculated for the central portion of the specimen (ocomputed 12.7 kg/mm²); in the second, compressive RS were computed (σ computed 15.3 kg/mm²). In symmetrical fatigue tests employing $N=2\times10^6$ cycles, the $\sigma_{\rm W}$ of specimens without RS amounted to $\sigma^{\rm O}=400$ kg/cm², for specimens tensile RS, a 285 kg/cm², and for specimens with compressive RS, σ" 535 kg/cm². A diagram showing how the σ_w of the specimens varies with RS was constructed together with a simplified endurance curve. Formula employed in the computation: $\sigma_{\mathbf{W}} = \sigma^{-0} = \sigma^{-0} = resid^{-0} =$ that the RS combine with stresses due to external loads and, depending on their sign, they exert a positive or a negative influence on the tensile strength of the specimen. 1. Welded joints--Stresses 2. Welded joints--Tensile properties 3. Welded joints - Deformation 4. Stress analysis

SOV/137-58-8-17044

Translation from: Referativnyy zhurnal, Metallurgiya 1958, Nr 8, p 120 (USSR)

AUTHOR:

Navrotskiy, D.I.

TITLE:

Low-temperature Tensile Strength Tests of Welded Structural Members With Abrupt Variations in Profile Subjected to Various Degrees of Stress (Ispytaniye prochnosti elementov s rezkim izmeneniyem formy pri nizkoy temperature i razlichnom napryazhennom sostoyanii)

PERIODICAL: Tr. Leningr. politekhn. in-ta, 1957, Nr 189, pp 51-57

ABSTRACT:

Changes in σ_b of welded cruciform joints were investigated earlier under various stress concentrations (SC). Variation of SC is brought about by means of varying the distance between the end ribs which transmit the loads onto the central flange. It is shown that within a sufficiently wide range of distance variations between ribs the $\ \sigma_b$ is unaffected by SC, but that when the latter reach a certain value the value of the of his reduced, the reduction being more significant at low temperatures. Abrupt SC coupled with very low temperatures result in brittle fracture accompanied by a sharp decrease in over-all tensile strength. It is assumed that under these conditions the effect

Card 1/2

SOV/137-58-8-17044

Low-temperature Tensile Strength Tests of Welded Structural Members (cont.)

of residual welding stresses (RWS) may be definitely established. In order to verify this assumption, tests were carried out on welded cruciform structural members manufactured from steel St 3 (0.16% C, 0.6% Mn). The specimens were prestressed to various degrees by means of welding followed by one of two methods for relieving RWS: Preliminary elongation (P= 70 t, omean= 2000 kg/cm²) and subsequent annealing (at 650°C for a period of 3 hrs, followed by a 10-hr cooling period in the furnace to a temperature of 150°). The specimens were subjected to tensile tests on a tensile-strength testing machine (200 t) at temperatures of 20-68°. It is noted that the σ_b of specimens with abrupt SC decreases sharply within a definite interval of low temperatures. The tensile strength changes sharply in the critical-temperature range (-49±30). Under conditions producing destruction of specimens at temperatures below the critical range, the effect of initial RWS is considerably less than the influence of temperature changes. This makes the evaluation of the influence of the RWS on the tensile strength of specimens more difficult and shows that the tensile strength of a specimen will not be increased as a result of removal of RWS under these conditions, and that the employment of such a procedure would be of small practical value in the present case. 1. Welded joints-Stresses 2. Welded joints-Mcchanical properties 3. Stress analysis Card 2/2

SOV/137-58-10-21001

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 10, p 89 (USSR)

AUTHOR: Navrotskiy, D. I.

TITLE: Determination of Tangential Stresses in a Welded Butt Joint

(Opredeleniye kasatel nykh napryazheniy v svarnom stykovom

shve)

Tr. Leningr. politekhn. in-ta, 1957, Nr 189, pp 58-67 PERIODICAL:

ABSTRACT: A description of procedures involved in computation of

tangential stresses in a butt joint; in the course of the computations the contour of the true weld reinforcement was replaced by a contour with rectangular projections (P) and P formed by inclined planes. The formulae derived for this case may be employed for determination of stress concentrations (SC) in butt welds. An analysis of these formulae reveals that when the P are sloping the SC are considerably smaller than in the case of a rectangular P. A reduction in the height of the P

and an increase in its width also reduce the SC in the butt weld.

3. Mathematics 1. Welds--Stresses 2. Stress analysis Card 1/1

---Applications

PHASE I BOOK EXPLOITATION

804/3692

Mayrotskiy, Dmitrly Ivanovich

Primeneniye svarnykh konstruktsiy iz stali povyshennoy prochnosti

(Application of High-Strength Steel Weldments) Leningred, 1958. 22 p. (Series: Informatsionno-tekhnicheskiy listok, Hos. 93/94, Svarka i payka) 6,200 copies printed.

Sponsoring Agencies: Lemingrad. Dom nauchno-tekhnicheskoy propagandy, and Obehchestvo po rasproctraneniyu politicheskikh i nauchnykh snaniy RAFER.

Ed.: Z. M. Ryshik, Engineer; Tech. Ed.: D. P. Freger.

PURPOSE: This booklet is intended for welders.

COVERAGE: The author discusses the importance, use and nature of lowalloy steels for various types of veldments. He also deals with some aspects of the velding process. No personalities are mentioned. There are 7 references, all Soviet.

TABLE OF CONTENTS: None given. The booklet is divided as follows: Card 1/2

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NAVROTEKTY, D. I.

"Strength of Welded Connections in Which Residual Stresses are Present,"

p. 81, Strength of Welded Structures, Moscow, Mashgiz, 1958, 147pp.
Sbornik, Mauchno-Tekh. Obshchestvo mashinostroitel'noy promyshlennosti., km. 48.

The book centains the principal reports of a conference held in Leningrad and sponsored by Leningrad Branch, of All-Union Sci,. Engineeing and Technical Soc (VEITO) of walders..

927

NAVROTSKIY, D.1.

PHASE I BOOK EXPLOITATION

Mezhvuzovskaya konferentsiya po svarke, 1956

Sbornik dokladov...(Reports of the Interuniversity Conference on Welding, 1956) Moscow, Mashgiz, 1958. 266 p. 7,000 copies printed.

Sponsoring Agency: Moscow. Vyssheye tekhnicheskoye uchilishche.

Ed.: Nikolayev, G.A., Doctor of Technical Sciences, Professor; Ed. of Publishing House: Mezhova, V.A., Tech. Ed.: Tekhanov, A.Ya.; Managing Ed. for Literature on Heavy Machine Building (Mashgiz): Golovin, S.Ya., Engineer.

PURPOSE: This book is intended for welding engineers and technical personnel of scientific research organizations.

Card 1/6

Reports of the Interuniversity (Cont.) 927 This is a collection of technical papers and reports presented by the representatives of various educational, indus-COVERAGE: trial, and research organizations at the 1956 welding conference. They deal with problems of strength of welded connections and structures, automatic arc and resistance welding of steels, and nonferrous metals and alloys. No personalities are mentioned. There are 109 references, 95 of which are Soviet, 12 English, and 2 German. TABLE OF CONTENTS: Nikolayev, G.A., Doctor of Technical Sciences, Professor. Ways of Reducing of the Weight of Structures Through 5 Application of Welding Navrotskiy, D.I., Candidate of Technical Sciences, Docent. Effect of Stress Concentration on the Strength of Welded 21 Structures card 2/6

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NAUROTSKIY D/

125-58-5-5/13

AUTHORS:

Manilova, R.Z., Navrotskiy, D.I., Shishkin, V.Yu.

TITLE:

Investigation of the Vibration Endurance of Welded T-Joints. (Issledovaniye vibratsionnoy prochnosti svarnykh tavrovykh

soyedineniy)

PERIODICAL:

Avtomaticheskaya Svarka, 1958, Nr 5, pp 32-40 (USSR)

ABSTRACT:

T-joint specimens (automatically welded under flux) in the form of the standard joints used in welded bridge beams, were tested under vibration load. Detailed information is given on the shape and preparation of specimens, the tested metal, and the results of tests. The optimum fusion depth of joints was determined, and the effective coefficient of stress concentration - \$\beta\$ - was experimentally established. It was concluded that the vibration endurance of automatically-welded-under-flux T-joints considerably exceeds the strength of corresponding riveted joints. The obtained data is recommended for use to calculate the endurance of automatically-welded joints. It was found that the vibration resistance of unchamfered T-joints is insufficient for work under tear

Card 1/2

Investigation of the Vibration Endurance of Welded T-Joints. 125-58-5-5/13

stress, and that they should only be used in light stressed bridge joints. Chamfering must be used for joints in critical sections. The main trusses of the experimental all-welded span across the river Bolva, is mentioned as an example of such critical applications. The features of joints in this bridge are briefly described. The specimens for the tests were prepared at the Voronezhskiy mostovoy zavod (Voronezh

Bridge Plant).
There are 5 figures and 4 tables.

ASSOCIATION: NII mostov pri LIIZhTe (Bridge Research Institute at LIIZhT)

SUBMITTED: December 30, 1957

AVAILABLE: Library of Congress

Card 2/2

135-58-8-4/20 Savel'yev, V. R., Marrotskiy, D. I; Shishkin, V. Yu., Candidates of Technical Sciences, and Eakurin, V. A., Engineer. AUTHORS: Vibration Resistance of Butt-Welded Joints of "NL-2"-Steel (Vibratsionnaya prochnost' svarnykh stykovykh soyedineniy TITLE: iz steli NL2) Svarochnoye proizvodstvo, 1958, Hr 8, pp 14 - 18 (USSR) PERIODICAL: The article gives results of investigations into the vi-ABSTRACT: bration resistance of butt and T-welded joints in "NL-?"steel (composition given in table 1). A detailed description of the technology of the tests is given. The following conclusions are made: equal resistance of butt-welded joints in "NL-2" steel under static and vibration load can be ensured by the use of "AN-10" flux with "SV-08", "Sw-O8GA", "Sw-12M", electrodes and "OSTs-45" and "AN-348" fluxes with "Sv-O8GA" electrodes. It was possible to obtain the required seam surface by proper selection of the welding process parameters without additional machanical treatment (only necessary in case of violation of this Card 1/2

135-58-8-4/20

Vibration Resistance of Butt-Welded Joints of "NL-2"-Steel

technology). The cooling rates for zones adjacent to seams are recommended to be from 5.6 to 18.3 degrees per second. There is 1 diagram, 4 graphs and 8 tables.

ASSOCIATION: NII mostow (Scientific Research Institute of Bridges)

1. Welded joints--Vibration resistance

Card 2/2

SOV/137-59-3-5819

Translation from: Referativnyy zhurnal. Metallurgiya, 1959, Nr 3, p 125 (USSR)

Navrotskiy, D. I. AUTHOR:

The Strength of Welded Connections in the Presence of Residual TITLE:

Stresses Therein (Prochnost' svarnykh soyedineniy pri nalichii v

nikh ostatochnykh napryazheniy)

PERIODICAL: V sb.: Prochnost' svarn. konstruktsiy. Moscow-Leningrad,

Mashgiz, 1958, pp 81-98

ABSTRACT: The author examines the effect of residual stresses (RS) on the

strength of welded connections in mild steel under static, impact, and vibrational loadings. On the basis of an analysis and a survey of numerous experiments and theoretical investigations the author reaches the conclusion that, regardless of the type of loading, the RS's do not influence the mode under which the welded connections operate. The operational conditions of structures having RS's may be classified as elastic, because the first application of the test load rules out any possibility of subsequent plastic deformations.

A certain degree of work hardening (WH) of the metal in the vicinity

of the weld results in an increase in the values of σ_{S} and σ_{D} , as Card 1/2

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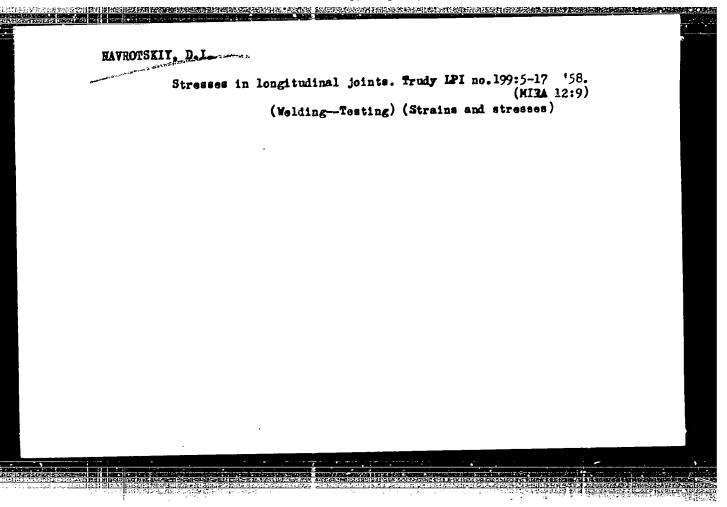
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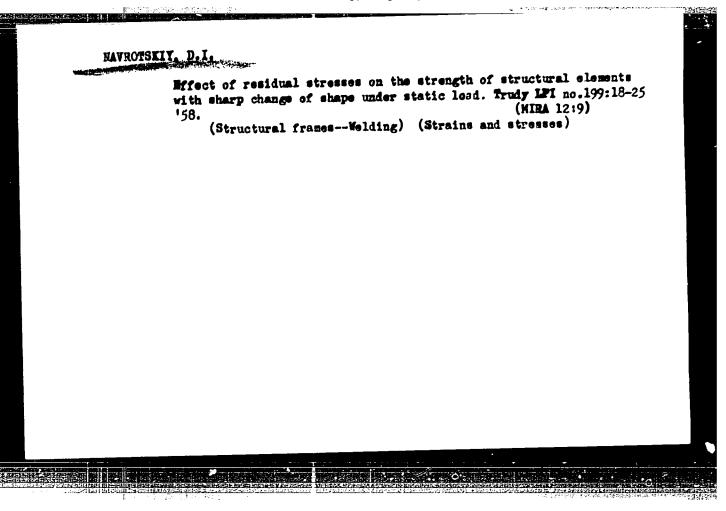
The Strength of Welded Connections in the Presence of Residual Stresses Therein

well as in the value of σ_w which is related to these characteristics. The favorable effect of a local WH is significantly greater than the effect of the tensile RS's. Therefore, relieving the RS's by means of annealing, which also eliminates the desirable effects of the WH, results in a reduced value of the σ_w . RS's may lead to a reduction in strength in certain instances of particularly adverse conditions of welding (e.g., welding of rigidly clamped components) combined with high stress concentrations due to live loads and severe operating conditions which may lead to brittle failure of the structure. However, even in these instances, the adverse effects of the RS's may be completely eliminated by applying appropriate technological and design measures.

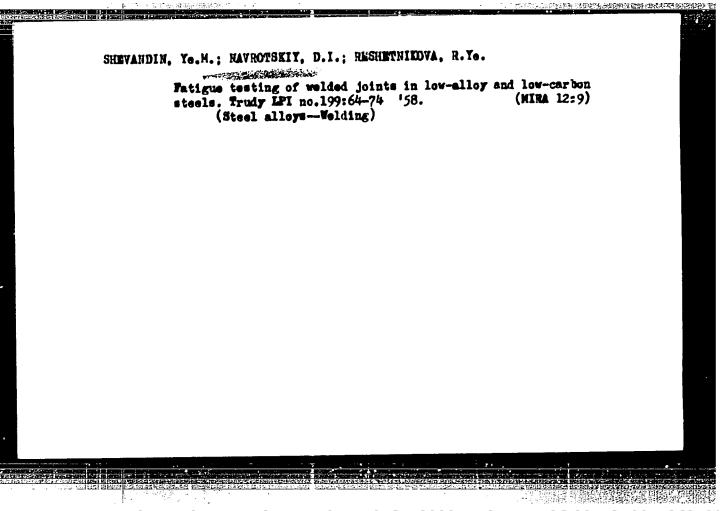
M K

Card 2/2





Investigating the effect of welding stresses on the vibration strength of welded lew-alloy steel structures. Fruly LPI no.199: 53-63 '58. (NIRA 12:9) (Structural frames—Velding) (Steel alloys—Velding)



25(1) SOV/135-59-3-8/24 AUTHORS: Shishkin, V.Yu., Navrotskiy, D.I., Savel'yev, V.K., Candidates of Technical Sciences, and Makurin, V.A., Engineer The Mechanical Properties of Welded Joints of "1002SD (MK) TITLE: Steel* (Mekhanicheskiye svoystva svarnykh soyedineniy stali 10G2SD(MK)) Svarochnoye proizvodstvo, 1959, Nr 3, pp 12-15 (USSR) PERIODICAL: ABSTRACT: The described experimental investigation of the base metal and welded joints of the low-alloy steel "lOG2SD(MK)" ("GOST 5058-57"-standard) proved its good weldability, and its suitability for steel frame structures including railway bridges. The cold-brittleness point of this steel is below - 60° C. The composition of the specimens (Table 1) was the following (in %): 0.12-0.14 C, 1.36-1.58 Mn, 0.72-1.0 Si, 0.024-0.032 P, 0.027-0.042 S, 0.10-0.30 Cr, 0.17-0.23 Ni, 0.12-0.33 Cu. The mechanical properties and the details of the welding technology applied in the experiments are given. Recommen-Card 1/2 dations are made as to the combinations of the electrode

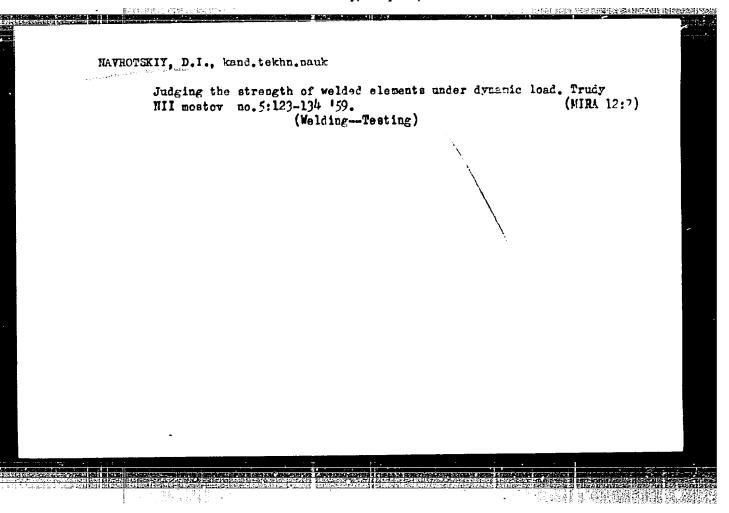
SOV/135-59-3-8/24

The Mechanical Properties of Welded Joints of "logest (MK) Steel"

wire and the flux grades to be used. There are 5 tables, 7 graphs, 2 diagrams and 3 Soviet references.

ASSOCIATION: NII mostov (NII of Bridges)

Card 2/2



BEETE ET INGENIEMEN EN ENERGE

S/125/60/000/03/007/018 D042/D001

25(1)

enanezis da anci

Mayrotskiy, D.I., and Savel'yev. V.N. AUTHORS:

On the Influence of Residual Stresses upon the Static Strength TITLE:

of Notched Specimens

Avtomaticheskaya svarka, 1960, Nr 3, pp 51-59 PERIODICAL:

It was stated in previous experiments Ref. 1,27 that residual stresses in welded joints do not impair strength even in low ABSTRACT: temperature and under high stress concentration. In described tests, notched specimens with less stress concentration than in the first experiments were used, and the shape and dimensions of

the specimens were uniform. Details of tests are given and the specimens shown (Figure 1). Five series of specimens were used: 1) Reference series free of residual stresses; 2) with indentation made in a press - with heated mid and residual compression stress caused by heating with a gas torch; 3) with 2100 kg/cm² prestretching (1.5 times higher than permissible for this steel in bridge structures) and also with heated edges.

Part of the specimens was subjected to additional annealing to Card 1/2

3/125/60/000/03/007/018 D042/D001

On the Influence of Residual Stresses upon the Static Strength of Notched Specimens

> remove the stress. Residual stresses were measured by cutting and readings of resistance pickups. It was concluded that under static load (even under the most difficult conditions with low temperature and high residual stress) the influence of residual stresses is considerably weaker than the positive effect of factors which caused these stresses (local plastic deformation and the changes of dimensions and properties caused by it), hence it can be practically ignored. There are 2 diagrams, 4 graphs, 3 tables and 4 Soviet references.

ASSOCIATIONS: Leningradskiy politekhnicheskiy institut (Leningrad Polytechnical Institute (D.I. Navrotskiy); NII mostov pri LIIZhTe (Scientific Research Institute of Bridges at LIIZhT) (V.N. Sarel'rev)

SUBMITTED: Card 2/2

September 22, 1959